

PATENT ABSTRACTS OF JAPAN

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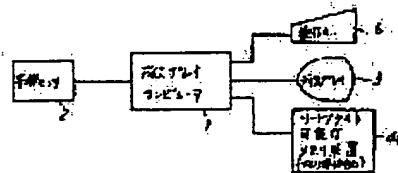
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(54) NAVIGATION SYSTEM

(57)Abstract:

PURPOSE: To change, add and correct the map data of a memory device to be agreed with the actual road even when the position and condition of the road are changed by detecting the shift of the position of a vehicle on the map data from the position of the vehicle on the actual road.

CONSTITUTION: This system is provided with a display computer 1, various kinds of sensors 2, a display 3 and a memory device 40. When a vehicle is running on a road which is present in a map data, a mark indicating the position of the vehicle is overwritten onto the map. The mark is moved as the vehicle moves. However, if the vehicle starts to run on the map outside the road, the computer 1 detects the fact and executes a correcting/judging process. Since the road data is represented by the vector data of a starting point, an intermediate point and a final point, if the area of the difference in comparison with the path of the vehicle is larger than a parameter set while the state in the neighborhood of the road is taken into consideration, it is so judged that the vehicle is outside the road. If the area is smaller than the parameter, it is detected that the vehicle runs on the road, and the corresponding process is carried out.



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